

BADGER STATE

SMOKE SIGNALS

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Reno Goetsch, W9NA (SK)

Reno Goetsch, W9NA, became a silent key on Feb 25, 2005 at the age of 88.

He was licensed as W9RQM in 1934 when he was a senior in high school. In that year he also became a founding member of the Wisconsin Valley Radio Association. He was the last surviving charter member of this organization. Over the years he served in many leadership positions as an officer, board member and station trustee.

During World War II he was a radio instructor for the army signal corps and army air transport command.

As a lifetime member of the American Radio Relay League, he served as Section Communications Manager in the 50's and was active in the 9th call district QSL bureau which operated in Wausau, WI at that time.

His interests in Amateur Radio were widespread and he was an avid CW operator with a code speed in the 40-45 wpm range (in spite of being afflicted with Parkinson's disease for

many years). DXing was a major activity and he was a member of the ARRL Honor Roll with over 365 countries confirmed.

Contesting was a favorite activity and Reno was usually one of the top leaders, particularly in DX contests and the annual Sweepstakes. Traffic handling, rag chewing, and mobiling were also activities, which attracted him.

In his early years he did much home brewing, and later as an employee of the local electric utility he was able to get a 50 ft power pole installed in his backyard. He mounted a homebrew 8JK beam with a pitch prop motor for the rotator and this served him well for the bulk of his DX career.

As an Elmer he helped many newcomers and old-timers with his technical expertise and operating skills.

Doc K9BX
Submitted by Jerry W9GLG
From QRZ.COM:

FCC MORSE, RESTRUCTURING PROPOSALS
COULD HIT THE STREET BY MID-YEAR

The FCC continues to work toward developing a Notice of Proposed Rule Making (NPRM) that will spell out what the Commission has in mind with respect to possible changes in the current Morse code requirement and Amateur Radio licensing.

A total of 18 petitions have been filed, including one from the ARRL, seeking Part 97 rule changes addressing the future of the 5 WPM Morse requirement (Element 1) and revisions to the overall Amateur Radio licensing structure. The FCC is planning to tackle all 18 rulemaking petitions within the framework of a single proceeding.

As far as the code issue is concerned, petitions--and comments in response to them--run the gamut from retaining or even beefing up the Morse requirement to eliminating it altogether. (The ARRL's proposal would retain the 5 WPM Morse examination for Amateur Extra class ap-

plicants only.) The League and others have also put forth proposals for a new entry-level Amateur Radio license class.

At this point, personnel in the FCC Wireless Telecommunications Bureau are continuing to review the thousands of comments filed on the 18 petitions. While the FCC appears unlikely to release an NPRM any sooner than mid-2005, the issue still may be a major discussion topic during the FCC Forum at Dayton Hamvention, May 20-22.

Once public, the NPRM will initiate yet another round of public comments--this time on what the FCC has proposed. An FCC Report and Order to implement any new rules regarding Morse code and license restructuring is unlikely before the second half of 2006, although it's possible the Commission could wrap up the proceeding before then.

The ARRL Letter, Vol. 24, No 09

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Check us out on the web at
<http://www.bsas.org>



WHAT’S HAPPENING

Swapfests and Other Social Events — Club Meetings Amateur Radio Exam Schedules

Edited by Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage WI 53901 — kenneth.ebnetter@verizon.net

Swapfests And Other Social Events

April 1, 2005, AES Superfest 2005 (2:00 to 7:00 p.m., April 2nd (8:30 a.m. to 3:00 p.m.)

25-35 manufacturers; 15 Clubs and Organizations; 7 Informational Forums; The Gordo Show, V.E. Testing, Fox Hunt (with prizes). Free Admission, Free Popcorn & Soda, and food for purchase by the Boy Scouts. Specials, Coupons, Door Prizes. Yada, yada.

Gordon West - Friday morning special appearances on local TV (Fox-6) morning show, three segments, starting at 7:00 a.m.

Forum topics:

Antique Radio Restoration Basics< Jim Hilins, KA4UPW

Astronomy Basics, Kevin Burt

Radio Astronomy, Phil Anderson, W0XI

Software for Amateur Radio, Jack Hudson, W9MU

The Radio Amateurs Information Network (R.A.I.N), Hap Holly

Yaesu FT-DX9000 overview, Chip Margelli, K7JA

The Gordo Show, Gordon West, WB6NOA

Continuously updated Superfest progress

at: aesham.com/superfest

April 16, 2005, The NS9RC (formerly known as LAMARSfest) Hamfest, Lake County Fairgrounds, Grayslake, IL. For more information contact: 847-291-6865 or www.ns9rc.org

April 17, 2005, Madison Area Repeater Association Swapfest, Stoughton, WI. Mand
C o m m u n i t y C e n t e r
400 Mandt Parkway, Stoughton, WI. Inquiries can be directed to: w9hsy@execpc.com or write to MARA, PO Box 8890, Madison, WI 53708-8890, Tele:608.245.8890 For more information see the MARA website www.qsl.net/mara. Also see the ad elsewhere in this issue of BSSS

May 07, 2005, Cedarburg, WI. 26th Annual Amateur Radio and Computer Swapfest, Ozaukee Radio Club (ORC). Circle B Recreation Center, intersection of State Highway 60 and Ozaukee County Highway I. Info: Gene Szudrowitz, (262) 377-6792 between 6:00 and 8:00 pm or <http://www.ozaukeeclub.org/>

June 5, 2005, Swapfest, sponsored by SEWFARS at Richfiled Chalet, 1271 Hwy 175, Hubertus, WI. e-mail to sewfars@hotmail.com or call: (262)-628-7791. SEWFARS Swapfest, PO Box 105, Eagle, WI 53119.

June 4th & 5th, 2005. Illinois State Con-

vention/Princeton Hamfest, Computer & Hobby Show, Bureau County Fairgrounds, Princeton, IL For general info contact: KB9RKU 815-539-6477, e-mail w9mksham-fest@yahoo.com. Website: www.QSL.net/w9mks/hamfest.htm

July 9, 2005, South Milwaukee ARC Swapfest, American Legion Post 434, 9327 South Shepard Ave., Oak Creek, WI. e-mail ryatex@aol.com. Phone (414) 762-3235.

August 13, 2005 Circus City Swapfest, Sauk County Fairgrounds, Baraboo, WI. Steve Schultze, W9UDO, (608) 356-2313 or Bill Klinkner, N9KXX, (608) 643-6908/643-6453 <http://www.qsl.net/ytarc/hamfest.htm>

August 14, 2005, 71st Annual Hamfest, Hamfesters Radio Club, <http://www.hamfesters.org>. Talk-In: 146,52 Simplex. Contact: R.J. (Bob) Morrow, KB9YRE, 4312 West 109th Street ,Oak Lawn, IL 60453, Phone: 708-636-0963 .mail: kb9yre@aol.com

September 16-17, 2005, W9DXCC Convention. Northern Illinois DX Association, <http://www.w9dxcc.com>.Talk-In: 147.36/.96. Contact: Mark Potter, W9UZ, 28 West 070 Mack Road, Wheaton, IL 60187. Phone: 630-682-4678. Email: w9uz@arrl.net

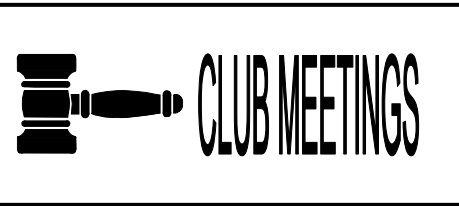
September 16-17-18, 2005. Peoria Superfest, Exposition Gardens Fairgrounds, 1601 W Northmoor Rd, off N. University, Peoria,

IL. Contact: Peoria Superfest, PO Box 3508 Peoria, IL 61612-3508. (309) 692-2378. e-mail: w9uvi@arrl.net. <http://www.peoriasuperfest.com>.

September 17-18, 2005, Radio Expo 2005, Chicago FM Club. <http://www.chicagofmclub.org>. Talk-In: 146.760 pl 107.2. Contact: Mike Brost, WA9FTS, 5127 N. Monterey Avenue, Norridge, IL 60706. Phone: 708-457-0966. Email: mbrost@cin.net

November 18-19 2006, Indiana State Convention (Fort Wayne Hamfest & Computer Expo), Allen County Amateur Radio Technical Society, <http://www.fortwaynehamfest.com>. Talk-In: 146.88 (-). Contact: James D. Boyer, KB9IH, 3031 Wilderness Road, Fort Wayne, IN 46845. Phone: 260-489-6700. Email: kb9ih@arrl.net

Further information about hamfests in the area can be found at bss.org or at <http://www.arrl.org/hamfests.html> If your organization is sponsoring a Hamfest/Swapfest and would like us to list your event, please send the information to Ken Ebnetter, K9EN at the address below or to k9en@arrl.net



Appleton
FOX CITIES AMATEUR RADIO CLUB Meetings: Third Mondays, 7 p.m., Columbus Club, 2531 N. Richmond Street, Appleton, WI Information: Pat, K9IK, 920.725.1149. PLatour428@aol.com Web: <http://www.w9zl.ampr.org/>

Baraboo
BADGERLAND AMATEUR TELEVISION SOCIETY (BATS) Check BATS Web page: <http://www.shopstop.net/BATS/>

Baraboo
YELLOW THUNDER AMATEUR RADIO CLUB Meetings: See the YTARC column elsewhere in this issue for meeting times and locations. For further information: <http://www.qsl.net/ytarc>.

Dubuque, IA
GREAT RIVER AMATEUR RADIO CLUB Meetings: First Monday of each month, 7 p.m. at the Red Cross Center, 2400 Asbury Road. The club serves the tri-state area. On the Web: <http://www.qsl.net/wb0lob/>. Information or questions to: N0hdc@aol.com.

Eau Claire
EAU CLAIRE AMATEUR RADIO CLUB Meetings: 2nd Tuesday - 7 p.m., Eau Claire Parks & Recreation, 1300 First Ave., Eau Claire, WI 54703.

(Continued on page 6)

Badger State Smoke Signals

Amateur Radio Education and Information

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EDITORIAL BOARD: Ken Ebnetter, K9EN; Don Evenson, K9JYX.

Subscription Rate

1 year (6 issues—bi-monthly)\$13.95

A subscription form is in this issue. Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month before the issue date. For example, the closing date for the May issue is April 1. The only exception is for participating clubs' minutes. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections, and exchange papers should be sent to Ken Ebnetter.

Editorial material, photographs, and feature articles should be sent to Ken Ebnetter, K9EN.

Web page material should be sent to n9qa@arrl.net (Dave Knaus, N9QA).

Inquiries about advertising should be directed to Ken Ebnetter.

Club, swapfest, and Test Point information should be sent to Ken Ebnetter.

Swapfest ADS should be sent to Ken Ebnetter, K9EN no later than eight weeks before the

events date.

Subscriptions should be sent, with check or money order, to Ken Ebnetter.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*.

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Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

The Test Point



Amateur Radio Examination Locations and Schedules in the Area

April 02, 2005	Milwaukee, WI (MRAC)
April 02, 2005	Madison, WI
April 02, 2005	Appleton, WI
April 02, 2005	Racine, WI
April 02, 2005	St. Paul, MN
April 09, 2005	Blaine, MN
April 09, 2005	Oshkosh (Omro), WI
April 10, 2005	Wausau, WI
April 14, 2005	Apple Valley, MN
April 16, 2005	Eau Claire, WI
April 16, 2005	Milwaukee, WI (BE)
April 16, 2005	Loves Park, IL
April 16, 2005	Cottage Grove, MN
April 19, 2005	Eden Prairie, MN
April 23, 2005	Bloomington, MN
April 23, 2005	Portage, WI
April 30, 2005	Milwaukee, WI (MRAC)
April 30, 2005	Tomahawk, WI
May 07, 2005	Madison, WI
May 07, 2005	Ozaukee, WI
May 07, 2005	Fond du Lac, WI
May 07, 2005	Racine, WI
May 07, 2005	St. Paul, MN
May 14, 2005	Appleton, WI
May 14, 2005	Sheboygan, WI
May 14, 2005	Apple Valley, MN
May 14, 2005	Blaine, MN
May 14, 2005	Oshkosh (Omro), WI
May 14, 2005	Onalaska, WI
May 17, 2005	Eden Prairie, MN
May 21, 2005	Loves Park, IL
May 21, 2005	Cottage Grove, MN
May 28, 2005	Bloomington, MN
May 28, 2005	Milwaukee, WI (MRAC)
May 28, 2005	Tomahawk, WI
June 04, 2005	Madison, WI
June 04, 2005	Racine, WI
June 04, 2005	St. Paul, MN
June 09, 2005	Apple Valley, MN
June 11, 2005	Blaine, MN
June 11, 2005	Oshkosh (Omro), WI
June 18, 2005	Mauston, WI
June 18, 2005	Milwaukee, WI (BE)
June 18, 2005	Cottage Grove, MN
June 21, 2005	Eden Prairie, MN
June 25, 2005	Bloomington, MN
June 25, 2005	Tomahawk, WI
July 02, 2005	Madison, WI
July 02, 2005	St. Paul, MN
July 09, 2005	Blaine, MN
July 09, 2005	Oshkosh (Omro), WI
July 14, 2005	Apple Valley, MN
July 16, 2005	Loves Park, IL
July 16, 2005	Cottage Grove, MN
July 19, 2005	Eden Prairie, MN
July 23, 2005	Bloomington, MN
July 30, 2005	Tomahawk, WI
July 30, 2005	Milwaukee, WI (MRAC)
August 06, 2005	St. Paul, MN
August 11, 2005	Apple Valley, MN
August 13, 2005	Blaine, MN
August 13, 2005	Oshkosh (Omro), WI
August 16, 2005	Eden Prairie, MN
August 20, 2005	Loves Park, IL
August 20, 2005	Cottage Grove, MN
August 27, 2005	Bloomington, MN
August 27, 2005	Tomahawk, WI
September 10, 2005	Onalaska, WI

November 12, 2005 Onalaska, WI

Monthly, 1st Sat. (except Jan., Jul., & Aug.)	Racine, WI
Monthly, 1st Sat.	St. Paul, MN
Monthly, 2nd Thu.	Apple Valley, MN
Monthly, 2nd Sat.	Blaine, MN
Monthly, 2nd Sat.	Oshkosh (Omro), WI
Monthly, 3rd Tue.	Eden Prairie, MN
Monthly, 3rd Sat. (September through April)	Milwaukee, WI (BE)
Monthly, 3rd Sat.	Loves Park, IL
Monthly, 3rd Sat.	Cottage Grove, MN
Monthly, 4th Sat.	Bloomington, MN
Monthly, Last Sat. (except Mar., Jun., Aug., & Dec.)	Milwaukee, WI (MRAC)
Monthly, Last Sat. (January thru October only)	Tomahawk, WI

GENERAL RULES FOR MOST EXAMINATIONS: Be sure to check with sponsors before going to an examination session. There may be changes and/or errors in the dates or information given. Some examinations require filing an FCC or NCVEC Form 605 and advance registration at least 30 days before the exam date. Some VE teams permit walkins. Check with the sponsor.

Many hamfests and swapfests offer examinations. A Hamfest entrance fee should not be charged if you come only to attend the examination. To register in advance, you must get a copy of the current FCC Form 605, and fill it out completely and correctly. Get your form from the FCC as instructed below, or from the American Radio Relay League, 225 Main Street, Newington, CT 06111. Please send an SASE if you request a form from the League. FCC Field Offices seldom stock forms. You can also get a form from

http://www.fcc.gov/formpage.html
or
ftp://ftp.fcc.gov/pub/Forms/Form605.

A form by FAX is available at (202) 418-0177 (request Form 000605). The FCC Forms Distribution Center will accept orders at (800) 418-3676. Form 605 has a main form, plus a Schedule D with two parts (for Vanity and Physician's Certifications). Forms can also be obtained from the sponsoring group.

See QST, WIAW bulletins, or The ARRL Letter regarding any annual exam fee changes. ARRL/VEC no longer gives a free code test or Element 2. Test fees: The ARRL/VEC has set its 2005 test fee at \$14.00. FCC requires applicants to show their original amateur license or CSCE to the VE team. You must also have a good copy of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 605 and most VE teams need a copy for their records. One good CSCE copy is sufficient. You are also be required to have a photo ID, or two other forms of ID. Contact the VE team for details.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only. Proof must be either in the form of a pre-3/21/87 license document or a "Letter of Verification of Technician License Held Prior to 1987" as requested in writing from the FCC, 1270 Fairfield Road, Gettysburg, PA 17325-7245. For those with internet access, a listing of exam sessions is available from:

http://www.arrl.org/arrlvec/examsearch.phtml

By checking this page, you can find registered VE sessions anywhere in the US and some overseas. You can search by country, state or zip code. The listing is not specific to any particular VEC. It is a master database. Thanks to Bart Jahnke, W9JJ, ARRL/VEC.

Appleton, WI
Fox Cities ARC (ARRL/VEC) All regular test sessions are held at the American Red Cross Building, 1302 East Wisconsin Ave. in Appleton. Testing starting at 8 a.m. No walk-ins after 9 a.m. For information, contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (920) 730-0967. Email:

w9mdp@arrl.net.

Eau Claire, WI
Eau Claire Amateur Radio Club. Grace Lutheran Church, 202 W., Grand Ave. Enter off 2nd Avenue entrance, Eau Claire, WI
Technician, General and Extra Class exams. Walkins welcome. Examination session coordinator: Jonathan E., Case, (715) 834-1540. www.ecarc.org. w9eau@ecarc.org.

Fond du Lac, WI
Fond du Lac ARC (ARRL/VEC). Community United Methodist Church, 701 Minnesota Ave., North Fond du Lac. 9:00 a.m. Walk-ins allowed. Contact: Douglas J. Schultz, 920-922-3088, schultz74@charter.net.

Madison, WI
First Saturday monthly: 8 a.m. to 10 a.m. Space Place, 1605 South Park Street, Madison. Please bring a picture ID, your original license, a copy of your license, and the original and a copy of any relevant CSCEs, and a check for \$12.00 made out to the ARRL/VEC. No appointments are necessary to take exams. Exams start promptly at 8 a.m. Questions may be directed to Tim Czerwonka, WO9U, at 608-239-3696 (home phone) or sent to wo9u@arrl.net.

Mauston, WI (ARRL/VEC)
Sponsored by the Juneau County ARC. Please bring a picture ID, your original license, a copy of your license, and the original and a copy of any relevant CSCEs, and a check for \$12.00 made out to the ARRL/VEC. No appointments are necessary to take exams. Exams start promptly at 8 a.m. Questions may be directed to Tim Czerwonka, WO9U, at 608-239-3696 (home phone) or sent to wo9u@arrl.net.

Menominee, MI
Marinette-Menominee Amateur Radio Club. Location: The cafeteria of Bay Area Med Center, US-41 in Menominee. Building located next to KFC just off the Interstate Bridge. All classes given. Advance notice preferred, but not required. Test fee is \$10 with two pieces of identification required. Contact Jeff Rymer, N9PQU at jrymer@ez-net.com or Ed Engleman, KG8CX, at dxe@cybrzn.com. We will monitor the 147.000 (107.2 pl) repeater in event further directions or info is needed.

Milwaukee, WI
Milwaukee Radio Amateurs' Club (MRAC VEC) Last Saturday, except in March, June, August, and December. In addition, we test at the West Allis RAC Swapfest in January and at Superfest in April. 9:30 a.m. to noon at Amateur Electronic Supply (AES), 5710 W. Good Hope Road (the door you enter is actually numbered 5730), Milwaukee. For additional information, call (262) 797-MRAC. Bring along your original license, CSCE (if any), and one (1) good quality photocopy of each, plus two forms of identification, such a driver's license, etc. Also required is \$8.00 for the exam fee. Walkins are welcome. To register in advance, use a post card. Print the grade of license you are applying for, your name, address, and telephone number, and send the card to MRAC/VEC, Milwaukee Radio Amateurs Club, P.O. Box 070695, Milwaukee, WI 53207. Contact: John G. Kraak, 262-797-6722.

Onalaska, WI
Sponsor: Riverland ARC, Time: 9:00 AM (Walk-ins allowed), Contact: Roger C. Reader, (608)783-0723. Email: [READ-](#)

ERS@CENTURYTEL.NET. VEC: [ARRL/VEC](#). Location: Onalaska Public Library. 741 Oak Ave S. Onalaska, WI 54650

Oshkosh, WI (Omro)
Oshkosh VE Team Amateur Radio exams monthly on the second Saturday. Registration begins at 8:30 a.m. and exams will be given from 9 a.m. until noon. Omro Community Center, 130 W. Larrabee, Omro, WI. Walkins welcomed. Bring a good quality photocopy of your original license and any other necessary documents such as a CSCE, etc. The first session will be through W5YI/VEC, and then sessions will alternate between ARRL/VEC and W5YI/VEC. The exam fee is \$6.65. For more information, please call Dick Lemme, K9FA, at (920) 235-0987, e-mail: lemme@vbe.com, or write Dick at 826 Jefferson Street, Oshkosh, WI 54901.

Ozaukee, WI
Sponsor: Ozaukee Radio Club. Time: 9:00 AM (Walk-ins allowed), Contact: John G. Kraak. (414)332-6722. Email: JKRAAK@WI.RR.COM. VEC: [Milwaukee VEC](#). Location: Circle B Recreation Center, 6261 State Road 60, Cedarburg, WI 53012

Portage, WI
Time: 9:00 AM (Walk-ins allowed), Contact: Edward J. Wagner, (608)584-4858
Email: AB9FN@ARRL.NET. VEC: [ARRL/VEC](#). Location: Columbia County Law Enforcement Center, 711 E Cook St, Highway 33, Portage, WI 53901 Talk-in Frequency 146.520 MHz.

Racine, WI
ARRL VEC Monthly - first Saturday, except January, July, and August. Monthly exams are given 9 to 11 a.m. at the Faith United Methodist Church, 1013 Harmony Drive, Racine. Walk-ins are permitted. Talk in on 147.87/.27. Inquiries and registrations should be directed to Paul B. Smedegaard, N9RGW, 929 Lathrop Ave., Racine, WI 53405-2339. Telephone: (262) 637 4750. or e-mail to smedegaa@wi.net

Sheboygan, WI
Sheboygan County ARC (ARRL/VEC). Exams are held in the Red Cross Building, 2032 Erie Avenue, Sheboygan, WI. The test areas are handicap accessible with signage posted to direct candidates to the proper area of the building. Walk-ins are accepted, however notification ahead of time of your intention to appear would be appreciated. Contact: Art Pahr K9XJ, 920-876-2370. N8029 Willow Road k9xj@arrl.net Plymouth, WI 53073-2929

Tomahawk, WI
Tomahawk ARRL VE Team (ARRL/VEC). Last Saturday of every month, January thru October. Registration at 8:30 a.m. and testing starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633, dcollins@newnorth.net.

St. Paul, MN
Saint Paul Radio Club (SPRC) First Satur-

(Continued on page 7)

Wisconsin Nets Association Ltd.

Dean R. Herriges, KB9ROB, Secretary
W370 S9590 Highway 67 • Eagle, WI 53119

WISCONSIN NETS

Net	WNA	Freq.	UTC	LOCAL	Manager
BWN	YES	3985	1200	0600	W9IXG
BEN	YES	3985	1800	1200	KE9VU
WSBN	YES	3985	2315	1715	K9FHI
WNN	YES	3723	0000	1800	KB9ROB
WSSN	YES	3645	0030	1830	WA9ZTY
WIN/E	YES	3662	0100	1900	WB9ICH
WIN/L	YES	3662	0400	2200	W9UW
RCRA	NO	01/61	0130	1930	KA9OMC
(Mondays CDT— Menomonie Area)					
Green Bay Area	NO	72/12	0345	2145	WB9NRK
ARES	NO	4.65/5.25	0300	2100	
(South East/South Central Wisconsin)					
ARES/RACES (WRACES)	NO	3996	0000	1800	KB9ENO

STM REPORT WISCONSIN SECTION JANUARY 2005

FAQ #37 I've heard that CW nets are fun. How can I get involved without looking foolish when I check in? -- Great question! First, you should know that CW isn't amateur TV so you won't **look** foolish. Actually, you won't even sound foolish, if you know just a few basics about the net - and you'll be very welcome. Here's how it will sound.

The net control will call up the net like this: CQ WNN CQ WISCONSIN NOVICE NET PART OF ARRL NTS AND WNA LTD QND (This is a directed net.) QNZ (Please zerobeat my frequency.) QNN (Here's the net control.) KB9ROB/ DEAN WNN QNI K.

A station wanting to check in will send a single letter -- any letter -- often part of their call. The NCS will respond with that letter. (This eliminates doubling.) Then the station checking in will send: KB9ROB DE K9LGU GE DEAN QRU (I have no traffic. Do you have any for me?) K

The net control (at the speed of the station check-

ing in) will send: K9LGU GE DENNY TU AS (Thank you. Please wait.) If he wants to call on this station later in the net, he will probably use the callsign's suffix. Like this.

NCS: LGU (Hey, K9LGU!)
K9LGU: K (Yep?)
NCS: RSX (Hey, W9RSX!)
W9RSX: K (Go ahead.)
NCS: U5 LGU 1 (Shift frequency up 5 KHz. and send one message to K9LGU)
K9LGU: GG (Going)
W9RSX: GG (Going)

When the stations return to the net frequency, they'll send their suffixes to let the NCS know they're back.

The universality of the NTS message form makes sending traffic on CW just as easy (maybe easier with full break-in) as on phone. The format's the same and, of course, the objective is the same -- to get the message through as accurately as possible. A CW net is just another network - and more participation is how we can make the net ----- work.

73 -- K9LGU/STM - WI

STM REPORT WISCONSIN SECTION FEBRUARY 2005

FAQ #38 Why do we collect data such as SARs, PSHRs, and net summaries?

Every month we compile the data from our traffic handling to check on how we're doing. We forward the Station Activity Reports, Public Service Honor Roll data, and a summary of each net's activity to ARRL HQ for proper acknowledgment in QST and so WV1X knows how

we're doing. This measures our progress and gives credit where it's due.

Speaking of credit, as a recent STM presentation on traffic handling at the West Allis Radio Amateur Club, W9YCV was awarded an ARRL Certificate of Merit for his tireless work with the nets in Wisconsin. Les certainly deserves good wishes for all he does on both phone and CW nets. Why not send him your congratulations in a radiogram?

73 - K9LGU/STM-WI

Check us out on the web at
<http://www.bsسسs.org>

WISCONSIN SECTION MONTHLY NET ACTIVITY SUMMARY January 2005

NET	QNI	QTC	QTR	SSNS	NM
BWN	1446	2070	3583	31	W9IXG
BEN	345	21	579	23	KE9VU
WSBN	873	86	1184	31	K9FHI
WNN	113	11	211	21	KB9ROB
WSSN	No report filed	0	0	0	WA9ZTY
WIN/E	166	28	244	28	WB9ICH
WIN/L	142	27	269	29	W9UW
WRACES	141	2	264	5	N9VAO
totals	283	2217	6090	140	

STATION ACTIVITY SUMMARY January 2005

STATION	ORIG	RCVD	SENT	DLVD	TOTAL
K9JPS	0	354	31	350	735 - BPL
KA9EKG	41	249	236	10	536 - BPL
W9IHW	0	200	31	190	421 - BPL*
N9CK	22	80	76	4	182
K9LGU	5	72	47	10	134
K9FHI	0	35	38	0	73
AG9G	0	7	55	0	62
W9SWL	0	15	43	2	60
N9VE	0	13	38	0	51
KG9B	0	4	45	0	49
W9BHL	0	7	41	0	48
KE9VU	0	20	27	0	47
N9TVT	0	0	45	0	45
W9KKM	0	2	36	2	40
K9GU-DEC	0	0	32	0	32
KN9P	0	14	14	0	28
K9GU	0	0	27	0	27
WD9FLJ	4	6	7	3	20
KB9ROB	0	13	3	1	17
W9RSX	0	2	14	0	16
WB9ICH	0	10	2	0	12
W9PVD	0	4	5	0	9

P S H R SUMMARY January 2005

CALL	1	2	3	4	5	6	T
N9VE	34	40	30	195	0	0	299
KB9KEG40		36	20	165	0	10	271
KG9B	31	40	20	135	0	0	226
K9JPS	34	40	10	135	0	0	219
AG9G	40	40	20	30	0	0	130
W9BHL	40	40	30	10	0	0	120
K9FHI	40	40	30	10	0	0	120
K9LGU	40	40	30	5	0	0	115
N9TVT	40	40	10	0	0	0	90
WD9FLJ	40	20	10	0	0	10	80
W9RSX	40	16	10	0	0	0	66

WISCONSIN SECTION MONTHLY NET ACTIVITY SUMMARY February 2005

NET	QNI	QTC	QTR	SSNS	NM
BWN	1409	1824	3233	28	W9IXG
BEN	429	44	770	25	KE9VU
WSBN	776	99	1124	28	K9FHI
WNN	160	10	284	26	KB9ROB
WSSN	0	0	0	0	WA9ZTY
WIN/E	182	43	278	27	WB9ICH
WIN/L	130	39	285	28	W9UW
WRACES	117	0	236	4	N9VAO
Totals	3203	2059	6210	166	

(Continued on page 8)

The Computer Corner

By Stan Kaplan, WB9RQR • 105 Martin Drive
Port Washington, WI 53074-9654
(262) 284-9346
Skaplan@mcw.edu



No. 122. Cleaning the Closet

As usual, Ed Rate (AA9W) has come up with another good question at one of the Ozaukee Radio Club breakfasts on Saturday mornings. Ed runs Windows 98 Second Edition, but the question applies to whatever version of Windows you might use. Basically, he asks how one gets rid of all the “junk” that accumulates as you work in Windows. He is absolutely correct – junk does accumulate in the form of files that are no longer of use and will never be used again.

So then, where does this stuff come from? The junk comes mostly from two basic activities. 1. Simple daily use of the computer, such as for surfing the web, writing documents, editing pictures and so on. 2. Installing and uninstalling software.

Daily use can result in a myriad of temporary files. If you use Word to create a document or to edit one that already exists, a temporary file is created which is not erased if your computer crashes. Editing pictures creates similar temporary files, which may not be deleted under some circumstances. Aside from cookies, surfing the web creates a myriad of files, which should be deleted when you are done, but which are often kept to repaint the screen with that website in case you should visit again.

The really BIG source of junk files results from installing and uninstalling programs. Many temporary files are created when you install a program, and some software manufacturers are not too careful to clean up these files when they are no longer needed. Even worse, uninstalling a program – even when you do it correctly from the Control Panel’s Add/Remove Programs applet – often leaves behind a residue of many files that will never be used again.

So then, how do you clean the closet? How do you know that C:\Windows\Application Data\Real\Msg contains a file, CATEGORY.DAT that is useless and will never be used again? Or that C:\Windows\Application Data\Drwatson contains a file called FRAME.HTM that is useless to most users (but not ALL users)? Or that C:\Windows\System contains a 1.4Mbyte file, SHELL32.DLL, that you had better not delete or you may screw up your system? The simple answer is, you don’t know!

Even an expert user doesn’t know. Some of these files are not used by you, the user, but

rather are invoked by other programs when they run. For example, on my system, here is a quick tabulation of the number of files (*.exe or *.dll) invoked by a couple of different programs:

Windows Explorer	59
System Tray	22
Norton System Doctor	21
Norton Antivirus	32
Zone Alarm (firewall)	43

This means that Windows Explorer will open and run up to 59 other files when I am using it! I had better not delete any of them, or my system will be damaged.

Clearly, Windows is a complex mish-mash of interacting programs that no human can keep track of. Even a computer cannot keep track! The proof is that Windows does indeed crash (even XP). And, the software writers don’t help. Did you know there is a Windows program in the System directory called RUNONCE.EXE? Run once, indeed! It needs to run once, but every time Windows starts! Talk about misleading naming conventions!

So then, what to do? Well, as Dave Barrow (N9UNR) has said for years, it pays to reformat the hard drive and reinstall Windows every couple of years. That helps, but not completely, since Windows itself leaves junk files around when it is installed. But it helps. On the other hand, that is a daunting task. When I do it, it takes a couple of weeks of tweaking and adjusting to get the system back to the way I want it. Definitely, this is a step to be avoided until nothing else seems to help.

What then are some routine things you can do to help keep the closet clean? If you already have Norton Systemworks, one utility in the suite called Fast and Safe Cleanup will help a little, but not much. It does only a rather superficial cleaning of temporary files, but if you have the suite, use it. My favorite for a much more thorough cleaning, Window Washer, was reviewed in September 2002, No. 104, in this series. Window Washer (WebRoot Software, www.webroot.com) will do quite a good job of cleaning up junk, including cookies, histories and other sometimes-dangerous files. You can even customize it to leave stuff alone that you want to keep. It is, however, not freeware and will set you back \$39.95 for the latest edition (Version 5.5). Well worth the price, in my opinion. And if you are really into

cleaning, get the free utility RegSeeker, V1.35 at www.hoverdesk.net (look for the RegSeeker icon at the bottom of the page). Be careful, though. This utility cleans your registry, not simply files. Do not delete anything that you are not sure of. On the other hand, it does make a backup of everything you delete (if you select that option, which you should), and it will restore items if you wish. This makes it somewhat safer. I have used it on three com-

puters for about 6 months, and find it to be an exceptional tool. There are manual cleanups you can do. A good guide for this search and destroy activity is in Windows 98 Annoyances, by David Karp, O’Reilly and Associates, Sebastopol, CA (ISBN 1-56592-417-7). Take a look at the website: www.oreilly.com. They are a very good group. Happy Computing!

SIDEBAR: Harv’s Hamshack Hack

by Stan Kaplan, WB9RQR

From time to time, I run across unusual stuff that warrants a quick note. This is such a case. It is simply a single CD, a labor of love, and Harv’s “cold winter evenings project”. It is virtually free. Well, not totally. Send him a \$1 bill to cover the CD and postage, and he’ll send it to you. Don’t forget your address. Or, just send an email with your info, and he’ll catch up with you at the next swapfest for a beer and brat, and shove one in your hand. Harv Nelson, ai9nl@arrl.net, 409 W 6th Street, Washburn, WI 54891.

What is it? A single bootable CD that contains a complete operating system, stuffed with all the necessary system programs, plus lots and lots of ham programs. It works with a 486 or better and needs only 16MB RAM (more is better), a CD-ROM drive, a mouse, and a compatible standard graphics card. In other words, a minimal system is all that is needed for the CD to do its work. You know that old computer you moved to the basement when you got the new one? Yep, it will probably work just fine with it.

Boot with the CD and a Linux OS will take over (...now don’t get scared; the desktop looks and works pretty much just like Windows!). After the boot process is done you will have a desktop with lots of little icons for the many ham programs on board. Everything

from ARRL forms to web browsing to SETI-at-home to packet to PSK to ...you name it. Oh, by the way, there are four desktops. Ham radio stuff is largely on #2. An instruction on how to move between them is included in the documentation, but it is fairly self-evident. Click a system tray icon to see what happens! Explore! Twiddle the dials!

The neat and unusual thing is that you don’t need a computer with a working operating system. It could be your old, frozen Win95 setup. The Linux OS on the CD takes over and does it all. On the other hand, it makes no changes – it writes nothing to the hard drive (unless you tell it to), with one exception. If it finds an old Windows Swapfile on board, it will use it for supplemental memory space. If it doesn’t find a Windows version, it will write one itself (knoppix.swp) to use while it is working. You can easily erase that later, if you want to.

What a great tool to make use of an old machine. Well worth the buck! Oh, by the way, if your BIOS won’t let you boot from a CD, Harv will send you the necessary boot floppies. His aim is to get folks to use the CD and make suggestions to be incorporated into later versions. It is pretty slick right now! Nice work, Harv!

WISCONSIN SECTION MANAGER REPORT

FEBRUARY 2005

WISCONSIN: SM: Don Michalski, W9IXG, SEC: KB9ENO, STM: K9LGU, SGL: AD9X, OOC: N9VE, PIC: KB9NUM. TC: K9GDF, BM: WB9NRK ASM: K9UTQ, W9RCW, W9DGI, N9VE.

** With regret, I inform you of the passing of Lois Gurske, WB9YXU, 78. John McNamara, KE9GP, 82, passed away. He was a member of the Northland Amateur Radio Club and Army MARS.

** Section report from our State Government Liaison, Jim Lackore, AD9X: Government/Public Service Activity in Wisconsin Relative to Amateur Radio Interests and Concerns.

1. The State Legislature is gearing up for another busy session. However, to date, there does not appear to be any legislative activity dealing with Ham concerns.
2. Also, to date, all is quiet on the BPL scene. According to the PSC engineer assigned to deal with this technology, there have been no requests made to the Wisconsin PSC by electric utilities

operating in the state for permission to install or experiment with BPL.
3. Wisconsin Amateur Radio operators are urged to "keep their ears to the ground" in their localities and report any relevant government/public service activity to either our Section Manager, Don Michalski (W9IXG), or our State Government Liaison officer, Jim Lackore (AD9X) jlackore@arrl.net

** MRAC FM SIMPLEX CONTEST-Sunday, February 13! Details can be found at <http://www.qsl.net/mrac/FMContest2005.pdf> Enjoy the event and please avoid using the National calling frequencies in the contest.

** The 2005 Wisconsin QSO Party is scheduled to begin at 12 noon CST (1800Z) SUNDAY March 13, and run until 7 PM Sunday (0100Z March 14). This annual 7 hour event is sponsored by the West Allis Radio Amateur Club (WARAC). Further information, including entry forms, rules, the multiplier list, and the Cabrillo format for electronic log submissions, are available on our website www.warac.org under QSO Party. Entries will

(Continued on page 9)

Check us out on the web at
[Http://www.bssts.org](http://www.bssts.org)

Mancorad Radio Club

Theresa Hartlaub, KB9KXE
Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61

February, 2005 Meeting Minutes

President Fred (W6BSF) called the meeting to order at 1938 CST, February 9, 2005. The January, 2005 meeting minutes as published in Badger Smoke Signals were accepted by motion from Steve (KB9GPN) and second by Travis (KB9YRC). Treasurer Dick (N9QFY) gave the treasurer’s report, which was accepted by motion from Gene (WB9DQD) and second by Chris (KB9VLS). Introductions were made since a new ham joined the meeting; Bob, KC9HBA. Congratulations, Bob, and welcome to MANCORAD. Fred thanked the membership for the funds collected to date for Sri Lanka ham radio equipment what would have been very helpful had it been available in the recent Tsunami disaster. A total of \$575.00 has been raised, club donated and individuals also.

- Upcoming events of interest;
- AES Superfest – April 1 and 2, 2005 at the AES headquarters in Milwaukee.
 - WI QSO party on March 13, 2005; 12:00 p.m. to 7:00 p.m. The clubshack will be open for W9DK participation.
 - The Leukemia – Lymphoma Bike-athon will be held on July 23 – 24, 2005. We need a new coordinator as N9PBL has indicated he will not be doing it this year. Thanks, Steve, for your efforts in all of the previous years. This is a worthy event and should be considered by all for support.

The Ham-of-the-Year committee for this year was decided at the last meeting to include a previous recipient and two additional persons. Dick, N9QFY, will be the previous recipient member, and two additional members are needed.

Dan (N9NCU) reported on the library book project status. The final book delivery, to the Manitowoc Public Library, was made last Friday. The only remaining item is to arrange for a Public Relations meeting with MPL, and provide a recommendation for circulation removals since new books have now been donated. A very nice acknowledgement by the

Two Rivers Lester Public Library was read and circulated among those present.

Badger Smoke Signals has billed Mancorad for the 2004 club subscription. The bill will be paid after corrections are made for individuals who are no longer Mancorad members.

Dan made a presentation on the inventory that has been made of radio equipment available for loan to Mancorad member “new” licensed hams; the inventory list was routed to those present. “Lend-a-rig” is intended to be an incentive to bring new hams into the club. Dan, as club secretary, will maintain a book of loaned equipment, both club owned and club member owned. Carl, KA9WYK, will add that loaned equipment is available to new ham members on the W9DK website. The inventory includes 3 HF transceivers, 2 HF general coverage receivers, 1 HF antenna tuner, 6 VHF FM base stations, 5 VHF HT’s, 4 12VDC power supplies, and 1 variac. After discussion, it was suggested that a similar inventory of test equipment held at the clubshack should be made; Dan agreed to make such a list.

Travis gave a brief presentation on the upcoming March, April and May meetings, which will focus on Skywarn. Travis asks everyone for support to Skywarn this upcoming severe weather season, and asks that we sign up to receive Manitowoc Skywarn information by sending an email to manitowocskywarn@yahoo.com.

Fred announced that a DSL connection has been installed in the clubshack. Carl is working on computer hookup.

The attendance drawing was won by WS9X/N9IQZ who were not present; prize goes to \$8.00 for next month.

The meeting was adjourned at 2043 CST, lunch was served (thanks Gene), and the group watched an ARRL download on BPL.

Respectfully submitted,
Dan (N9NCU), Secretary

Meeting Attendance (14):
Dan (N9NCU) Dick (N9QFY)
Bill (K9DUX) Carl (KA9WYK)
Steve (KB9GPN) Winston (KC9FVR)Gene (WB9DQD) Fred (W6BSF)
Bob (KC9HBA) Travis (KB9YRC)
KB9VLS (Chris) Liana (N9YNV)
Roger (W9NPX) Dan (N9FVZ)

Check us out on the web at
<http://www.bsss.org>

CLUB MEETINGS

(Continued from page 2)

All hams and guests welcome. W9EAU repeater 146.91 MHz, tone 110.9 Hz. Information: Jim Staatz, KG9RA, President, P.O. Box 1867, Eau Claire, WI 54702-1867. Phone (715) 838-9108, Email kg9ra@ecarc.org. Web page: <http://www.ecarc.org>

Fond du Lac
FOND DU LAC AMATEUR RADIO CLUB Meetings: Second Monday at Moraine Park Technical College, Fond du Lac, WI. Time: 7 p.m. Sunday net: 7:30 p.m. CDT, K9IA repeater, 145.430 - PL 107.2 Information: Jack Heil, KG9IN, 920.922.1413. Email: kg9in@fdlhams.org Web: <http://www.fdlhams.org>.

Fort Atkinson
TRI-COUNTY AMATEUR RADIO CLUB second Thursday monthly except June to August, 7 p.m., at Dwight Foster Public Library in Fort Atkinson. ARES Net each Wednesday evening at 8 and club net Monday evenings at 8 on 145.49 repeater. Contact: Glenn Eisenbrandt, WA9VYL, 920.563.6502, or John Satterlee, WA9SAB, 920.563.6381.

Grafton
Ozaukee Radio Club (ORC) Second Wednesday of each month at 7:30 p.m. Grafton Multipurpose Senior Center, 1665 7th. Ave., Grafton, Wisconsin www.qsl.net/orc/.

Green Bay
GREEN BAY MIKE AND KEY CLUB Meetings: Second Thursdays, 7:30 p.m., Media Services area of J. M. Science Building at St. Norbert College in DePere. Information: Kevin at kb9sne@yahoo.com.

Green Lake
GREEN FOX AMATEUR RADIO CLUB Greater Green Lake County area. Meetings: Third Mondays, 7:30 p.m., Green Lake Town Hall, intersection of County Highways K and N.

Hudson
St. CROIX VALLEY RADIO AMATEURS Meetings: Third Tuesdays, St. Croix County Emergency Government Center, Carmichael Road, Hudson. Short business meeting at 7:30 p.m. followed by program. Talkin: 145.13 MHz. All are welcome!

Juneau
ROCK RIVER RADIO CLUB Meetings: First Tuesdays, 7:30 p.m., Dodge County Administration Building, 127 East Oak Street, Juneau, WI. ARES Nets: 146.64 (-600) Mondays, 7:30 p.m., Saturdays, 7278 KHZ, Alternate in 3.947 at 10:00 AM. & Wednesday, 1908 KHZ 8:00 PM, Wintertime.

Madison
SPACE PLACE AMATEUR RADIO CENTER No meetings. Located on U.W.-Madison campus. Guest operators are welcome to operate the U.W. Space Place Amateur Radio Station, N9UW. Information: Don Michalski, W9IXG, President, (608) 263-4685. Email: n9uw@sal.wisc.edu.

Madison
BADGER AMATEUR RADIO SOCIETY University of Wisconsin - Madison/W9YT Meetings: Third Mondays at 7:00 p.m. in UW Union South. Room number posted on the Today in The Union board. Information: Don Michalski, W9IXG, (608) 263-4685. Email: w9ixg@arrl.org. Web: <http://www.qsl.net/w9yt>.

Madison
Madison DX Club, meetings are on every fourth Tuesday of each month; see <http://madisondxclub> for more details.

Manitowoc
MANITOWOC COUNTY RADIO AMATEURS (ManCoRad) Second Wednesday of each month. Club board meets at 6:30 p.m., and Regular meeting is at 7:30 p.m., at 1105 Fleetwood Drive, 2nd floor (Old County Shop building on northwest side of city.) For Additional information please see our club web-site www.qsl.net/w9dk or contact Fred Neuenfeldt, W6BSF, (920) 682-9312. Email: w6bsf@arrl.net.

Marinette WI
Menominee MI
Amateur Radio Club Meetings held second Thursday

7:00PM each month BAMC Tenth Avenue Menominee Michigan in the basement. Guests welcome e-mail secretary kg9ad@arrl.net

Medford
Black River Amateur Radio Association Meetings: Normally the first Thursday of each month. Usual meeting time is 7 PM. Most meetings are held at the Taylor County Courthouse. Directions: Those attending should park in the main courthouse parking lot on the east side of the building, and enter using the main courthouse entrance or the sheriff's dept. entrance. Proceed to the lower level of the courthouse using the stairs or elevator. We meet in the "break room" on the lower level, near the Emergency Government office. Talk-in on the 147.15 repeater (114.8 Hz PL, +600 kHz offset) and 146.52 MHz simplex. Contact: Mike Schoenfuss, N9GHZ, P.O. Box 401, Abbotsford, WI 54405. Phone: (715) 223-3996.

Menomonee Falls
FALLS AMATEUR RADIO CLUB, INC. Meetings: Last Wednesdays at Bank One building in Germantown. Doors open 7 p.m. Meeting time: 7:30 p.m. Guests are welcome!

Menomonie WI
Saturday coffee at Burger King, 544 Main Street, at 9 a.m. Social hour on 4th Tuesdays at 7:00 p.m. at the Depot, 2616 Hills Court, north of Walmart on highway 25 North, in January, March, April, and September through November. Guests welcome!

Milwaukee
GREATER MILWAUKEE DX ASSOCIATION Meetings: Fourth Monday of month, 7:30 p.m. Contact any GMDXA member, or Gary Schwartz, K9GS, (262) 363-4439. Email: garyk9gs@arrl.net.

Milwaukee
MILWAUKEE RADIO AMATEURS CLUB Meetings: Last Thursdays, 7:00 p.m. Redemption Lutheran Church, 4057 North Mayfair Road, Wauwatosa, WI. Mailing address: P.O. Box 070695, Milwaukee, WI 53207. Web: <http://www.qsl.net/mrac> . Email: w9rh@arrl.net.

Monomonie
RED CEDAR REPEATER ASSOCIATION, INC. Saturday coffee at Hardee's in North Monomonie, corner of Highways 12 and 25 at 9 a.m. Social hour on 4th Tuesdays at 7:30 p.m. at the Peppermill Too, 1414 9th Street in the L-Mart Shopping Center in January, March, April, and September through November. Guests welcome!

Northeast Area
NORTHEAST WISCONSIN DX ASSOCIATION Meetings quarterly: April 28, Marinette; August 25, Fox Valley; November 10, Green Bay. For specific information about meetings, check <http://home.new.rr.com/newdxa/>. Contact us at w9dxa@arrl.net.

Oak Creek
SOUTH MILWAUKEE AMATEUR RADIO CLUB Meetings: First Wednesdays, Legion Post #434, Shepard Ave., Oak Creek, WI. In March and October the meetings are turned into Auction Nights.. The club WEB site is www.qsl.net/wa9txe

Onalaska
RIVERLAND AMATEUR RADIO CLUB Meetings: First Tuesdays, 7 p.m., Onalaska Community Center. More information: <http://www.qsl.net/wr9arc/> . Email: wr9arc@qsl.net.

QCWA Chapter 162
QUARTER CENTURY WIRELESS ASSOCIATION (QCWA) Southeastern Wisconsin Chapter 162. Meetings: Third Monday in January, March, May, July, September, and November, 7:30 p.m., usually at Meadows Restaurant, Franksville, WI. Social events: Third Sundays in February, April, June, August, and October. Christmas party: Usually second or third Sunday in December.

QCWA Chapter 55
QUARTER CENTURY WIRELESS ASSOCIATION (QCWA) Wisconsin Chapter 55 meets the first Saturday of June and October. For information about Chapter 55, contact Ron Yokes, W9BCK, Secretary, 612 N. Pt Washington Road, Grafton, WI 53024-9703. (262) 375-1774. mailto:rryokes@execpc.com.

Racine
LAKESHORE REPEATER ASSOCIATION Meetings: Last Tuesday, January, April, July, October. American Red Cross Building, 4521 Taylor Ave., Racine, WI.

(Continued on page 11)

SWAPFEST

June 5, 2005

8:00 AM - 2:00 PM

AMATEUR RADIO COMPUTERS ELECTRONICS

SETUP STARTS AT 6:00 AM

RICHFIELD CHALET

1271 HWY 175

HUBERTUS, WISCONSIN

TALK-IN ON 146.82 (PL 127.3)

EXHIBITOR AND ATTENDEE RATES

OUTDOOR SPACE/VEHICLE

(17 ft D x 9 ft W) \$10.00 EACH

INDOOR SPACE

USE OF A 30 in x 96 in TABLE IS INCLUDED IN PRICE FOR INDOOR SPACES \$15.00 EACH

ELECTRICAL OUTLET

(WITH PURCHASE OF INDOOR SPACE ONLY) ADD \$10.00 EACH

ADMISSION TICKETS \$ 5.00 EACH

ONE TICKET MUST BE PURCHASED WITH EACH SPACE OR TABLE

FULL SERVICE RESTAURANT ON PREMISES

E-MAIL TO: sewfars@hotmail.com OR CALL: 262-628-7791
FOR MORE INFORMATION

#	OUTDOOR SPACES (OR VEHICLE)	-	\$10.00	Each
#	INDOOR SPACES	-	\$15.00	Each
#	ADMISSION TICKETS	-	\$ 5.00	Each
#	ELECTRIC OUTLET	-	\$10.00	Each

NOTE:
ONE TICKET MUST BE PURCHASED
WITH EACH SPACE OR TABLE

NOTE:
ELECTRICAL OUTLETS ARE AVAILABLE
ONLY WITH INDOOR SPACES

E-mail Address: _____

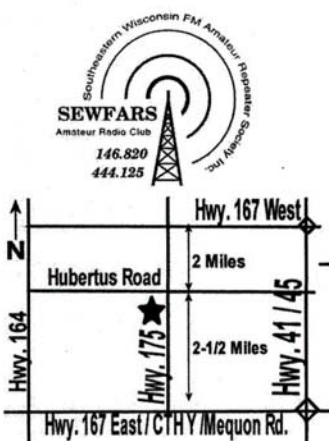
Name: _____ Address: _____

City: _____ State: _____ Zip: _____ Phone: _____

Brief Description of Display & Items being sold: _____

Mail Check or Money Order Payable to "SEWFARS" with a #10 S.A.S.E. to: SEWFARS Swapfest
P.O. Box 105, Eagle, WI 53119

SPONSORED
BY



Mail Check or Money Order Payable to
"SEWFARS" with a #10 S.A.S.E. to:

SEWFARS Swapfest
P. O. Box 105
Eagle, WI 53119

RESERVATION DEADLINE:

MAY 20, 2005

CASH ONLY FOR ADMISSION TICKETS
AND REMAINING SPACES ON DAY OF EVENT

The Ozaukee Radio Club, Inc. Presents its 27th Annual
Amateur Radio and Computer

SWAPFEST Cedarburg, WI

SATURDAY MAY 7, 2005

8:00 AM to 1:00 PM

CIRCLE B RECREATION CENTER

Intersection of St. Hwy 60 and Ozaukee Cty Hwy I
(Map on back)

Computers . . .
Used parts
Boards
Monitors
Cables

CD's . . .
Music
Software
Games
Maps

- ARRL SANCTIONED
- PLENTY OF FREE PARKING
- FOOD AND REFRESHMENTS



Amateur License Exams

will be administered between 9:00AM and 12:00 Noon.

Bring the **ORIGINAL** plus a **COPY** of your current Amateur license plus
another form of I.D.



RESERVE YOUR TABLES EARLY

Power availability – limited – first come first served
(Bring your own duct tape to secure your extension cords)

For further information, call **Gene Szudrowitz**
at (262) 377-6792 between 6:00 and 8:00 PM
also see Ozaukee Radio Club's Web site www.ozaukeeradioclub.org

Advanced Registration Form – 2005 Ozaukee Radio Club's Cedarburg Swapfest

Please send the following tickets by return mail in the ENCLOSED SASE:

- ___ Admission tickets @ \$4.00 in advance
- ___ Admission tickets @ \$5.00 at the door

Note: All persons entering the Swapfest must have an admission ticket

- ___ 8 foot table @\$10.00 ___ Power requested
- ___ Return application if power is not available

Vendor
Setup
6:00 AM

NAME: _____ CALLSIGN: _____ PHONE: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

E-mail Address: _____

Mail this form with your check and a **SELF-ADDRESSED STAMPED (BUSINESS SIZED) ENVELOPE** to:
O. R. C. Swapfest Committee – W55 N865 Cedar Ridge Drive, Cedarburg, WI 53012

The Test Point

Amateur Radio Examination Locations
and Schedules in the Area

(Continued from page 3)

day of the month, 8:30 a.m. Test Site: St. Paul
Technical College, 235 Marshall Ave., St
Paul, MN. Ed Van Cleave, W0VC, (612) 636-
0108. www.qsl.net/sprc/index.html.

Rockford, IL

Northern Illinois Volunteer Examiners
(W5YI VEC) Third Saturday of every month.
9:00 a.m. to noon. No new applicants after
11:00 a.m. Walk-ins welcome. Held at St. An-
thony Hospital, 5660 E State St., Rockford,
IL. Rusty Cordell, WB9QYV, 1823 Hulin St.,
Rockford, IL 61102-2619. (815) 968-0080. e-
mail: WB9QYV@aol.com.

Wausau, WI.

Sponsor: WVRA. Time: 2:30 PM
(Walk-ins allowed). Contact: Gerald L. Grae-
bel, (715) 842-9542 E-mail: W9GLG@ARRL.NET. VEC: ARRL/VEC.
Location: American Legion Golf Course,
1001 Golf Club Rd, Wausau, WI 54403

The Click Track

by Richard Regent

Musicians are using a new tool for coordinat-
ing multimedia. Take church music for example,
which becomes more jazzy and complex every
Sunday. The musicians play and choirs sing to
create an upbeat program while sensational video is
shown on screens. The tool is a click track, an audi-
ble electronic metronome that uses the time signa-
tures of the music to synchronize the video and the
live performance.

Churches like Elmbrook Church and the
Brookfield Assembly of God use click tracks to help
musicians match their music with the video that is
projected onto wall-mounted screens above the
stage area. Another screen may be attached to the
back wall for viewing by the conductor or perform-
ers. The click usually comes from one of the stereo
audio channels of a DVD playing the video and is
particularly useful when the video shows people
singing the song.

The click track is amplified and distributed to
the conductor, pianist and percussionist who wear
earphones. After hearing a vocal three-beat count-
down, they start the performance, which ensures
that everyone starts exactly with the video. Clicks
continue to help the conductor to direct and follow
the video, especially where time signatures get very
complicated or when long instrumental tacet pas-
sages occur. Choir members watch the conductor

while singing. Other musicians watch the conductor,
listen to the pianist and percussionist to assist with
their tempo, and listen to the choir for word cues.
The audience enjoys as everyone else must listen,
watch and work to create music.

Combinations of computers and software
programs are being installed to modernize many
church service production control rooms and sound
booths. However, in some systems, clicks can be
created on a synthesizer that has the appropriate
sounds, like a General MIDI drum bank or on a
sampler using included sounds. The click usually
has a standard kick and sidestick sound. A recent
improvement has the downbeat of each measure
characterized by a cowbell sound, and all the other
beats use a snare drum sound. These new sounds
were chosen because they are different from what
the live percussionist is playing, and are more easily
discerned by the conductor. The click track can be
modified by using other sounds or by changing the
notes in the track itself. It is possible to delete sec-
tions where the click might be superfluous or con-
fusing; or adjust its volume, using MIDI velocities
or the MIDI volume control, for different sections of
the piece. Audio experts faithfully make a copy of
the original click track and modify the copy, then
mute the original track and play the copy. Despite a
few exceptions, song measures with quarter-note
time signatures use a quarter-note click and meas-
ures with eighth-note time signatures use an eighth-
note click.

Another example of using this tool is in a
recording studio, where musicians are acoustically

separated into individual studios to allow for post-
editing and mixing. Here the click track has the
musicians play music at a consistent meter or revisit
a part and be able to pick up the beat quickly. Ad-
vanced features may have a track shifted earlier in
time to compensate for an instruments response
delay, as with a piano. Other usual timing variations
include the guitarist who is a little ahead of the bass
player, who is a little behind the drummer. Tiny
click adjustments can even help in live music situa-
tions where everyone can be in contact with each
other.

Some musicians find the click annoying
because it complicates their creativity to play music,
change tempo or embellish the notes. Also, unfortu-
nately, many church music arrangements are trans-
posed to difficult keys which then must be played at
unreasonably fast tempos of a locked in click track.
Musicians new to this tool may be rather embar-
rased, no matter how good their internal metro-
nome is, because the machine generated click never
fails. They must practice with a recording of the
song or a loud metronome and make adjustments at
the rehearsals and performance.

Behind-the-scenes activities of productions
include controlling lights, adjusting audio levels for
countless microphones, playing the videos, re-
cording video or audio, and coordinating the activity
of human videos, all while the music is on beat to
the click. As music technology evolves and per-
formance showmanship advances, click tracks may
make it all automatically possible. Amen.

(Continued from page 4)

P S H R SUMMARY
February 2005

CALL	1	2	3	4	5	6	T
N9VE	33	40	30	270	0	0	373
KB9KEG40		31	20	140	0	10	241
AG9G	40	40	20	100	0	0	200
K9JPS	30	40	10	100	0	0	180
KG9B	28	40	20	90	0	0	178
K9LGU	40	40	30	15	0	0	125
K9FHI	40	40	30	10	0	0	120
W9BHL	40	40	30	10	0	0	120
WD9FLJ	40	40	10	0	0	10	100
N9TVT	40	40	10	0	0	0	90
W9RSX	40	29	10	0	0	0	79

STATION ACTIVITY SUMMARY
February 2005

STATION	ORIG	RCVD	SENT	DLVD	TOTAL
KA9EK	2	205	194	110	841 - BPL
K9JPS	0	402	28	397	827 - BPL
N9VE	1	176	29	174	380 - BPL*
N9CK	10	110	107	3	230
K9LGU	15	59	37	12	123
W9SWL	0	37	57	7	101
W9UW	0	52	44	3	99
K9FHI	0	33	40	0	73
AG9G	0	8	51	0	59
WD9FLJ	3	24	27	1	55
W9BHL	0	11	40	1	52
W9KKM	0	6	35	6	47
KE9VU	0	23	22	0	45
KG9B	0	3	38	1	42
N9TVT	0	0	42	0	42
W9RSX	0	8	21	0	29
K9GU	0	0	29	0	29
KN9P	0	14	14	0	28
AA9BB	0	0	20	0	20
KB9ROB	0	10	4	2	16
WB9ICH	0	10	4	0	14
W9PVD	0	0	1	0	1

SSB

SELL SWAP BUY

MOVING SALE:
The following amateur radio equipment is for sale:
Kenwood 850s-AT HF transceiver.
Kenwood 940-AT HF transceiver.
Kenwood SP-230 speaker with filters.
Yaesu FT-102 HF transceiver
Icom IC-38A 220 MHz transceiver.
Astron power supply RS-35M.
MFJ 250 Dummy Load with oil. Never used.
MFJ 259B SWR Analyzer 1.8-170MHz.
MFJ 962-C Versa Tuner III – 1.5kw. (Needs work)

MFJ 986 Differential-T – 3kw.
MFJ 989C Versa Tuner V – 3kw.
QRO HF amplifier – Maximum Legal Power – 160-10 meters. (Well known as “Mr. Binford” in the Madison area.)
Swan Cygnet 300B HF Transceiver.
Tenmark 72-320 Oscilloscope – 20MHz.
Timewave DSP 59+
Many other items of amateur radio equipment and accessories to numerous to mention here.
If you are interested in any of the equipment contact Jake. Any items not previously sold will be available to see and purchase at the MARA Swapfest in Stoughton, WI on April 17, 2005
Jake Kitzingner, KE9XZ
Computer Clinic
1 Main St.
Portage WI 53901
(608) 745-4086

MADISON AREA REPEATER ASSOCIATION

2005 Madison Hamfest and Computer Show

Sponsored by the Madison Area Repeater Association – W9HSY
The date will be Sunday, April 17, 2005
Doors Open to the public at 8 AM – Dealer setup Saturday night

HUGE FLEA MARKET! – INDIVIDUALS & DEALERS
MANDT COMMUNITY CENTER – STOUGHTON, WISCONSIN

**TALK-IN ON 147.150 (123 Hz) REPEATER
ADMISSION PER PERSON - \$4.00 ADVANCD - \$5.00 AT THE DOOR
(Children 14 and under free)
VENDOR TABLES – 8 FT TABLES \$24 EACH

Questions? For More Information, see the MARA Web site at:www.qsl.net/mara
Or write to: MARA, Box 8890, Madison, WI 53708-8890 – Call 608.245.8890
E-mail: w9hsy@execpc.com

AMATEUR RADIO – NEW – USED – COMPUTERS – PARTS – TOOLS
PRIZES- BUY-SELL-BARGAINS – SHORT WAVE – ELECTRONICS -VE EXAMS

MARA 2005 Hamfest and Computer Show TICKET ORDER FORM

Please send me _____ Admission Tickets @ \$4.00 each \$ _____

Plus flea market table reservations (shown below) Table TOTAL \$ _____
(All vendors must have admission ticket in addition to table reservation)

GRAND TOTAL \$ _____

Name: _____

Business Name, if any: _____

Address: _____

City, State, Zip: _____

Telephone: _____ E-mail: _____

Table reservations postmarked by March 25, 2005 after March 25, 2005
Eight foot tables (for AC power add \$18) _____ @ \$15 _____ @ \$18
Indoor only – No outdoor sales! (\$25 on day of swapfest, if available)
Mail completed form with check to: MARA, PO Box 8890, Madison, WI 53708-8890
Include a self addressed stamped #9 or #10 business sized envelope for your tickets

BADGER STATE SMOKE SIGNALS

Subscription Form
Regular Individual Subscription Rate
1 Year (6 issues): \$13.95
PLEASE PRINT **1 New 1 Renewal**

Name _____

Call Sign (if any): _____

Address: _____

City: _____ **State:** _____ **ZIP:** _____

E-mail address: _____

Send me my BSSS by e-mail ☐
Send me my BSSS by mail ☐
Send me my BSSS by both ☐

Send this form, with check or money order to:
Ken Ebnetter, 822 Wauona Trail, Portage, WI 53901.
Please do NOT send cash.

WISCONSIN SECTION MANAGER REPORT

(Continued from page 5)

need to be received no later than April 14, 2005. Paper entries should be sent to: WIQP, P.O. Box 1072, Milwaukee, WI 53201. Electronic entries, using our Cabrillo format, should be sent to: k9kr@arrl.net. PLEASE clearly label any electronic entries so they do not become part of the large amount of spam we receive. We suggest you label your entry with your CALLSIGN and the extension LOG, such as - K9KR.LOG. If you need any kind of assistance, or have any questions, please send them to Lynn, k9kr@arrl.net. More information is in the February issue of BSSS. www.bsss.org

** Hope to see you at the AES Superfest 2005 April 1st. (2:00 to 7:00 p.m., April 2nd (8:30 a.m. to 3:00 p.m.). Meet ARRL staff from Newington and take advantage of several gifts being given for new or renewal of ARRL membership. Details on the event given at: http://aesham.com/superfest/index.html

** Congratulations to John Steffl, K0ZYA. During the WIAW Frequency Measuring Test, his measurement was within .88 ppm! And, John was recently received the A-1 Award, too! John's wife, Carol, KC9GPG, participated using a different technique and was within 1.82 ppm. Well done!!

** From our Section Traffic Manager, Denny, K9LGU: FAQ #37 I've heard that CW nets are fun. How can I get involved without looking foolish when I check in? -- Great question! First, you should know that CW isn't slowscan TV so you won't look foolish. Actually, you won't even sound foolish, if you know

just a few basics about the net - and you'll be very welcome.

The universality of the NTS message form makes sending traffic on CW just as easy (maybe easier with full break-in) as on phone. The format's the same and, of course, the objective is the same -- to get the message through as accurately as possible. A CW net is just another network - and more participation is how we can make the net ----- work.

Our appreciation to everyone who participates in the Wisconsin Nets!! A complete listing of Wisconsin nets and information on how to handle traffic is given at the Wisconsin site (Traffic Handling section): https://www.arrl.org/sections/?sect=WI If you know of a new net or if a listed net has expired or changed, please contact me or Denny, K9LGU, k9lgu@arrl.net.

** In an effort to further the hobby of Amateur Radio to interested parties of all ages, amateur radio books have been donated by MANCORAD club to the public libraries and to the public and parochial middle, junior and high school libraries throughout Manitowoc County. www.tworivers.lib.wi.us We thank the MANCORAD club for making this possible and encourage other clubs to contribute books to their community!!

** We really enjoyed the WARAC Hamfest and look forward to seeing you at a future Wisconsin Hamfest!

73, Don, W9IXG

FEBRUARY 2005

WISCONSIN: SM: Don Michalski, W9IXG. BWN 3985 0500-0715 W9IXG. BEN 3985 1200 KE9VU. WSBN 3985 1715-1800 K9FHL. WNN 3723 1800 KB9ROB. WSSN 3645 1830 N9JIY. WIN-E 3662 1900 WB9ICH. WIN-L 3662 2200 W9UW. (All times are Central)

** With regret, I am informing you of the passing of the following Amateur: > W9NA, Reno Goetsch, age 88. Reno was a charter member of the WVRA, a long-term member of the RMRA, and a lifetime member of the ARRL. He was so well known in DX circles that he was listed as an entry on the example page in the ARRL's official logbook for years.

** The Milwaukee County ARES owned repeater on 146.670MHz is moving to a new frequency. Plans are in place to have the QSY happen the weekend of March 5/6. The ARES repeater will then be on 147.165MHz + Offset 127.3 tone. This will NOT impact the coverage range of the repeater, the same hardware will be used from the same locations, only a frequency re-program is being made.

** On the weekend of April 9 and 10, the Wisconsin Valley Radio Association in Wausau will be sponsoring a Technician level amateur radio licensing workshop. The workshop will be held at the American Legion on Wausau's northeast side. A VE exam session testing all license classes will be held on the afternoon of April 10. The workshop itself is free of charge. The FCC requires an administrative fee

for testing, however. Also, required text for the workshop will be ARRL's "Now You're Talking", 5th Edition. Anyone interested or anyone with questions can contact Myron Oestreich, KB9STB. Email is kb9stb@wvraclub.org .

** The Riverland ARC recently conducted a one-day Technician class and 16 of the 18 students graduated with new Tech licenses! The club has followed up with an orientation meeting with the new Amateurs and club members to demonstrate proper operating techniques and equipment they will likely be using. More Elmer meetings are planned. Congratulations to the new Amateurs and club!

** Sixteen members of the Milwaukee Radio Amateur Club recently took a tour of the Sullivan National Weather Service site. We encourage other clubs to visit this and other interesting organizations who have opened the doors to Amateur radio clubs. A list of them is given on the Wisconsin site: https://www.arrl.org/sections/?sect=WI

** From our STM, Denny, K9LGU: FAQ #38 Why do we collect data such as SARs, PSHRs, and net summaries? Every month we compile the data from our traffic handling to check on how we're doing. We forward the Station Activity Reports, Public Service Honor Roll data, and a summary of each net's activity to ARRL HQ for proper acknowledgment in QST and so WVIX knows how we're doing. This measures our progress and gives credit where it's due. Speaking of credit, as a recent STM presentation on traffic handling at the West Allis Radio Amateur Club, W9YCV was



North
Shore
Radio
Club

www.ns9rc.org
see the website!

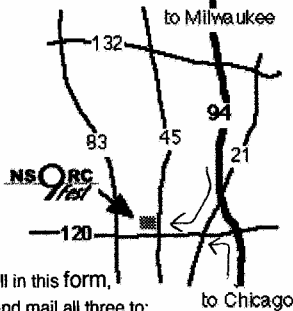
THE NS9RC HAMFEST
formerly known as LAMARSfest

Lake County Fairgrounds
Grayslake, Illinois

04/16/05

Radio, Electronic, Computer Swapfest

Doors Open at 8 AM. Set-Up at 6AM.
Admission \$7 at the gate / \$5 in Advance
V.E. Testing 9AM to Noon (\$10 test fee)
Hourly Prize Drawing FREE PARKING Cafeteria Open
Talk-in Simplex 146.52 & NS9RC Repeater 147.345 + .600



To order your NS9RCfest Exhibitor Tables or Advance Tickets fill in this form, include a check, a SASE (self addressed stamped envelope) and mail all three to:

North Shore Radio Club / P.O. Box 1066 / Highland Park, IL 60035
--- Do Not Mail after April 11th, 2005 ---

Swapfest Vendor tables @ \$25 each =\$
Advance Tickets (each attendee MUST have a ticket) @ \$5 each =\$
Advance Tickets have Double Stubs
Total=\$

Table Location Preference (subject to availability) _____

Name _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Email _____

Call Sign _____ Please Don't Forget that SASE

For more information call 847-291-6865 Sales of weapons, ammunition, or food products will NOT be allowed!

awarded an ARRL Certificate of Merit for his tireless work with the nets in Wisconsin. Les certainly deserves good wishes for all he does on both phone and CW nets. Why not send him your congratulations in a radiogram? 73 - K9LGU/STM-WI

** March 13 Wisconsin QSO Party-- Rules in March QST, page 92 or www.warac.org.

** The grants that sponsor and pay for the tuition to the Amateur Radio Emergency Communications Courses is in its third and final year. Those radio Amateurs who have not taken the on-line training yet, are encouraged to do so. Registration information may be found at http://www.arrl.org/cce/.

** Looking forward to Spring and upcoming Hamfests! Check out the details for the Jefferson, AES Superfest and Madison Hamfests on the Wisconsin site and I

Hope to see many of you there!

73, Don, W9IXG

ARRL Wisconsin Section
Section Manager
Donald E. Michalski, W9IXG
w9ixg@arrl.org

OLD BSSS ISSUES NEEDED

As we have mentioned before, we are making available a set of CDRs of the back issues of Smoke Signals, and some other publications of state wide interest. We have now scanned in most of the back issues and now have only 20 issues left to complete.

We hope to have the scanning completed shortly.

In our searching through the piles of extra copies we have saved here, we have been unable to locate some of the issues.

If anyone has any of the following issues, please let me know. I will be glad to send you a stamped envelope for you to mail it to me so that I can scan it in to the computer and return the issue to you.

1990	July	
1992	March	
1995	July	found
1995	November	found
1997	August	found
2001	November	
2001	December	

Thanks to Larry McCalvy, WA9JMO for finding the 1995 and 1997 missing copies.
73 ken k9en



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association
Joel Papke, N9BQM, Treasurer
7968 Ubinger Road, Pittsville, WI 54466-9214

Andy Nemec, KB9ALN, Editor—453 Cottage Grove Avenue—Green Bay, WI 54304—e-mail: new e-mail address pending

WAPR News - April, 2005

by Andy Nemec, KB9ALN

Hello and Welcome to Spring! I promise, it is coming.
There are a few pieces of news to report for this issue, though not a flood.

As I mentioned in February, Al N0GMJ has turned over the WAPR treasurer duties to Joel N9BQM. This is a temporary measure until we can locate someone who wishes to take on the duty. In the meantime, Joel has been working on updating the books, getting deposits taken care of, and the like. For those of you who've sent membership dues checks in, please continue to be patient.

As I mentioned last time, this means that we now have a new address to send our dues to, it appears at the top of the page. Speaking of dues, our dues structure remains the same as the last few years. Without the Badger State Smoke Signals, annual dues are a mere \$15.00. If you like to read the BSSS on line, then perhaps you'd like to send us \$20.00, and we'll send the extra \$5 to the BSSS. If you would like a printed copy of the BSSS, we'll include a subscription for \$25.00.

It's no secret that conventional packet radio usage has dramatically fallen in the last few years, and so has WAPR membership. In spite of the drop in packet usage, there are still people and groups that make extensive use of packet radio. Therefore, there is still a need to have an organizing and/or managing entity to help coordinate the use of packet radio, both in its "classic" and "new wave" versions.

WAPR is the best choice to carry on that role - really, pretty much the only choice. I am not aware of any packet radio organization that operates state-wide, owns portions of the network infrastructure and supports packet radio network development the way that WAPR does.

For that reason, I ask that if you care about packet radio, please consider joining WAPR. This applies if you operate the classic packet mode, or newer 802.11-type modes.

Coming E-Mail Change:

I've been threatening to do this for quite a while, and finally the wheels are in motion. The timing could be better, but soon I will be changing internet providers (and getting a healthy DSL speed boost in the process). As a result, my E-Mail address will change. My current account will expire before the next issue of the Badger State Smoke Signals

comes out. So there may be a time when some people will not be able to contact me.

I will be mass-mailing everyone I can think of to let them know of the change. I am not shy about passing out my E-Mail address, so I encourage those that receive the notice of my changed address to pass it on. I only ask that if you post it publicly, for example on a web page, you do not make it a "clickable" link. Please disguise it from robot computers that harvest E-Mail for spammers. In the case of my current address, it's as simple as showing it as kb9aln (at) gbonline (dot) com.

I'll also apologize in advance to anyone that should get the new address, but forgot to include on the list.

That's our short news report for this time out. Until next time, 73 from Andy.

Ham Implementation of 802.11 Packet Radio

by Andy Nemec, KB9ALN

In our last features, we had a short introduction to 802.11 technology, talked about how a wireless ethernet network is configured, explored antennas and then touched on feedline. This time out, we'll discuss an alternative setup.

An Installation Alternative

Up to this point, we've discussed a typical wireless ethernet card that is internally mounted in a P.C. A long run of expensive antenna cable is used in this type of installation, and R.F. signal is wasted through feedline attenuation. There is an alternative to this situation, however.

You may remember from a past article in this series concerning network infrastructure a mention of Wireless Access Points. These are stand-alone boxes that have an 802.11 radio system inside, and function as network routers of sorts. They generally have 4 or more wired network ports, and are usually connected to P.C. wired-type ethernet cards. They are, in a sense, bridges that join a wired and wireless network together.

There is no reason why you can't operate a Wireless Access Point (WAP) for yourself, and there are advantages to doing it that way. One is that these are most often mounted outdoors in a weatherproof box on an antenna mast. This way, there is minimal coaxial loss. The WAP is remotely configured and maintained through any one of the ethernet ports. It can function as a whole-house router i

The usual configuration is to install a WAP

inside of a NEMA-approved outdoor weather-sealed box, run and connect the ethernet cables, connect the antenna cable, seal all cable holes, and mount the assembly to the antenna mast. This requires less antenna cabling, resulting in less R.F. loss and better radio performance. A side effect is that there is a less direct path for lightning to follow in the unfortunate event that your antenna is struck. However, there are special needs that do have to be considered if one decides to install the system this way.

Running Hot and Cold

Before you decide to put a WAP outside, you need to know if it will work there. This is very easy to overlook. Thermal stability is essential to best data throughput. Be sure you look at the temperature specifications of the unit you have your eye on before UPS brings it to your door.

Along those lines, try to plan your installation so that the unit is not in direct sunlight, exposed to much wind, and is generally in the most "friendly" place it can be. This is not always possible, but anything done to mitigate the effects of a harsh outdoor conditions will help to insure a more successful installation.

Electricity from the Sky

The Amateur's mortal enemy, lighting is not limited to wreaking havoc with large HF antennas and radios. We all know that anything on a rooftop can be fair game for atmospheric electrical activity, both direct and induced.

For strong direct strikes, the best advice is to disconnect everything, including ethernet cabling. In the case of remote-site WAPs, this may not be possible. For the individual amateur who may not have a need to operate during a thunderstorm, this is the best advice. But what if you are operating a system that has to be available during a thunderstorm?

Then protection is in order, starting with the antenna. Consider a very good lighting arrestor that is capable of operating on your intended frequency. Select the one with the least insertion loss, the proper connector (N is best) and you have the potential to save the WAP from all but the strongest of strikes.

This assumes that you have a properly grounded antenna support structure. A good grounding system is a heck of a lot more complex than driving a ground rod into the earth. This is a topic all unto itself, and if you'd like

to learn more, consult the sites mentioned near the end of this article.

Of course, you will want to ground the WAP itself, and provide surge protectors for the ethernet cables connected to it. In fact, two surge protectors per cable should be used - one at the WAP, the other at the network card in the computer (or network device). This is important because long runs of cable are susceptible to magnetic fields generated by nearby lightning strikes.

These cables act as an inductor. Remember your grade-school science? When you pass a magnetic field by an inductor, a voltage is induced in the inductor. A very strong nearby strike creates a strong magnetic field that can induce a very high voltage spike in an ethernet cable. Computers, routers and other network devices need to be protected from these voltage transients.

The problem becomes potentially very damaging when you consider that not only your computer, but likely other computers will be connected together. One computer getting "hit" is one thing, but most people who have more than one computer have them connected together to share files. In this case, they could be sharing lightning-induced damage. Protect or disconnect all computers that are networked.

Of course, you probably already have power line surge protection. If not, what are you waiting for?


Additional Notes:

The one best piece of advice that can be given regarding these installations is that good RF construction practices do pay off. Yes, you are dealing with the somewhat mysterious world of computers. However, we are still connecting them together with Radio. There are basic rules to follow to make a radio work, and deep down, 802.11 is radio.


The same for basic antenna installation practices. Weather-sealing connections is a must, and it doesn't hurt to spray an anti-oxidant on the connectors before assembly (such as Caig De-Oxit D5). Remember, an intermittent connection on a voice radio is an annoyance. With data, it causes an extreme drop in throughput.

The same with a poor ground connection - it can induce static, pops, clicks and other noises that can make data undecodable. If you're using a combination of Aluminum and

(Continued on page 11)



Yellow Thunder Amateur Radio Club



WB9FDZ (Original Club Call)
K9ODK (Robert L. Prine Memorial Call)
Club net: Sundays 8:00 p.m. on 147.315
Robert Loomis, KB9VSQ, Secretary
108 Scarlet Ct., Reedsburg, WI 53959
YTARC Home Page: <http://www.qsl.net/ytarc/>

The Feb. 2 Meeting of Yellow Thunder Ham Radio Club was called to order by the VP Tom Harrison (N9PQJ) at 1918.53 hrs.

Members present were;

Tom Harrison	N9PQJ	Reedsburg
Len Wagner	N9XJG	Baraboo
Bill Klinkner	N9KXX	Sauk City
Bill Stehling	KC9CVD	Sauk City
Mike Hoier	KA9PSL	Lake Delton
Dave Spooring	KB9TBU	Portage
Maurey	KA9TBU	Portage
Pete Sweeney	WB9JIB	Reedsburg
John Stein	N5SHF	Reedsburg

The minutes left as published in the e-mail, with no action taken.

The Treasury reported that there was \$---- in the checkbook. The bills for the printing of the handbills and Smoke Signal advertisements and membership mailing had came in. Maurey moved that the bills were to be paid by the treasurer and seconded by Pete. The motion was carried.

Old business: the packet repeater is up and running at North Freedom, the information needed for 501c3 is still being looked into.

New business:

March 10th Weather training a Baraboo 10 to 12 am will be basic, advance will be 2 to 4 pm.

March 20th Jefferson Hamfest
April 1-2 AES at Milwaukee
May 7th Cedarburg Swapfest
May 7th Merrimac Fishing Tourney
May 21st Boy Scout Day

Zilch will be at the Farm Kitchen on the 26th of Feb. 05. N9PQJ will be sending out an e-mail about the time and place, if you are not on the list send him an e-mail at N9pqj@arrl.com. Any one is welcome to be a part of the Zilch.

Field Day this year will be held on the 25th of June 05. The meeting was closed at 2000 hrs.

Recorded by N5SHF John

CLUB MEETINGS

(Continued from page 6)

Racine
RACINE MEGACYCLE CLUB Meetings: Second Mondays, 7:30 p.m., American Red Cross Building, 4521 Taylor Ave., Racine, WI.

Rhineland
NORTHWOODS AMATEUR RADIO CLUB Meetings: Third Tuesday of Sept., Nov., Dec., Feb., and April for dinner business meetings at Ella's Restaurant, Jct. of Hwy. 51 and 70, north side of Woodruff, WI. Talkin on Sayner or Tomahawk repeaters. The Northwoods ARC News is on the club web site, <http://www.freeyellow.com/members7/nwarc>.

Sheboygan
SHEBOYGAN COUNTY AMATEUR RADIO CLUB Meetings: Second Tuesdays. 7 p.m., Sheboygan County Red Cross/Boy Scout Building, 2032 Erie Avenue.

Shell Lake
Northland ARC meetings are held the first Saturday of each month after breakfast. Location: Schmitz's Economart Deli. Located on US Hwy.63 on the south end of Spooner. The meeting will start at approx. 8:00 AM. Breakfast usually starts by 7:30 AM. Come and see what we're about. Anyone, even if you're licensed or not and has an interest in ham radio is welcome to attend! Next Meeting: Sept 4th, 2004 at 8:00 AM. So Please plan to attend!!!! <http://home.centurytel.net/NorthlandARC/>.

Stevens Point
CWRA Ltd./UWSP ARC Meetings second Wednesday, of each month at 7:30 pm. Science Building on the UW-Stevens Point Campus, Room A107, Stevens Point, WI. Email: jglas776@uwsp.edu. Webpage: www.qsl.net/wb9qfw.

Superior
ARROWHEAD AMATEUR RADIO CLUB, INC. Meetings: Second Tuesday at WITC Conference Center, 600 N. 21st St., Superior, WI. Time: 7:30 p.m. Board meetings held before regular meetings.

W.A.R. WISCONSIN ASSOCIATION OF REPEATERS
Quarterly meetings of the Wisconsin Association of Repeaters are held at various locations around the State on the second Saturdays of March, June, September and December. Check the WAR web page for meeting announcements and repeater coordination info. Information: <http://www.wi-repeaters.org>.

Watertown
WATERTOWN AMATEUR RADIO CLUB Meetings: First Thursdays of month, 7 p.m., Watertown Public Library, 100 South Water Street.

Waupaca
WAUPACA AMATEUR RADIO CLUB CQ First Tue. Social gathering and Dutch treat luncheon, King's Table, King, WI, on Highway QQ, just south of Highways 10 and 54, west side of Waupaca. Gather at 11 to 11:30. Order at noon. Club business transacted. CQ Third Fri. Social gathering and Dutch treat dinner. Semi-formal, OM and XYL, at one of the better supper clubs in the area. Check: Waupaca 147.39 nets at 8 a.m. or 8:50 p.m. for month's meeting location.

Wausau
WISCONSIN VALLEY RADIO ASSOCIATION Meetings: First Tuesdays, 7:30 p.m. Location varies. Information: 146.64 (-600). <http://home.dwave.net/~wvra/>.

West Allis
West Allis Radio Amateur Club Second Tuesday of each month at 7:30 p.m. St. Peter's Episcopal Church, 80th and Lincoln Ave., West Allis. Meetings in basement. Entrance at rear, off alley. Handicapped accessible. www.warac.org.

West Bend
WASHINGTON COUNTY AMATEUR RADIO CLUB Meetings: Second Thursdays, 7:30 p.m., Washington County Courthouse. Net: Thursdays, 7:30 p.m., 146.73 (-600).

Wisconsin Rapids
WISCONSIN RAPIDS AMATEUR RADIO CLUB Meetings: Third Wednesdays, 7 p.m., Room 14 of Wood County Courthouse. Talkin: 146.79 (-600) for entry into the building.

Wausau, WI Technician Workshop

On the weekend of April 9 and 10, the Wisconsin Valley Radio Association in Wausau will be sponsoring a Technician level amateur radio licensing workshop. The workshop will be held at the American Legion on Wausau's northeast side. A VE exam session testing all license classes will be held on the afternoon of April 10.

The workshop itself is free of charge. The FCC requires an administrative fee for testing, however. Also, required text for the workshop will be ARRL's "Now You're Talking", 5th Edition. This is available at the ARRL website for \$19.95. The site is: [http://www.arrl.org/catalog/?category=Licensing%21+Manuals%2C+Videos%2C+and+ More...&words=](http://www.arrl.org/catalog/?category=Licensing%21+Manuals%2C+Videos%2C+and+More...&words=)

The book can also be purchased at Amateur Electronic Supply in Milwaukee and their website is www.aesham.com. The book needs to be purchased and participants need to become familiar with the book's contents before the workshop.

Class space is limited to the first 25 interested participants. Anyone interested or anyone with questions can contact Myron Oestreich, KB9STB. Email is kb9stb@wvraclub.org.

Please pass this along to anyone or post on any club websites for those who may be interested in this workshop.

Thank you and have a good day.
Myron Oestreich, KB9STB
President, Wisconsin Valley Radio Association

License Workshops - Madison

The Space Place Amateur Radio Center (N9UW), 1605 South Park Street, Madison, WI 53715. Presents another Amateur Radio General Class Workshop-- May 21, 22 !!

You need, of course, a Technician or Novice license as a pre-requisite.

Here is a weekend workshop to help you upgrade your Novice or Technician Class ham radio license to General Class. Earn new privileges that will enable you to explore all the ham bands, try out new modes, and get into world-wide communications. A license examination session on Sunday afternoon concludes the workshop, so can upgrade your license to General Class in only two days. (The workshop covers the written element but does not cover 5 wpm Morse Code, which is required to earn the General Class license.)

The workshop is free-even refreshments are provided! (There is, however, an exam fee of \$14.00 to cover administrative costs.) To prepare you must get a copy of the ARRL General Class License Manual (5th ed., \$16.95), which is available via web or mail order from

the American Radio Relay League: www.arrl.org/catalog. (Check the ARRL web site for lots of information about ham radio.) You will receive suggestions for studying after you register. AES in Milwaukee sells the book, also. www.aesham.com.

Go to <http://www.spaceplace.wisc.edu/SPARC.shtml> for additional information.

Please tell us your age if you are a high school student or younger. Register soon! Class size is limited to 25. Email Don Michalski at w9ixg@arrl.org or call 608-274-1886.

If you already have your General, please pass this information around. I have included a flyer for you to post at your place of employment, also!

73, Don, W9IXG

Donald E. Michalski
UW Space Astronomy Lab
1150 University Ave.
Madison, WI 53706
608-263-4685 (office)
608-263-0361 (fax)
608-347-7452 (cell)
dem@sal.wisc.edu

(Continued from page 10)

Ham Implementation of 802.11

other metals, remember that dissimilar metals often create corrosion when joined together. Use No-Al-Ox on connections to Aluminum brackets and ground wires. Don't forget to weather-seal those connections, too.

Additional Information

Here are some of the sources of information I used in preparing this feature, and where you may find additional helpful information:

NEMA information and information about grounding and electrical standards: <http://www.nema.org>
Information on Lightning and Lightning Safety: <http://www.lightning.org>
<http://www.arrl.org/tis/info/lightning.html>
Additional lightning, antenna and antenna support structure grounding information:





formation: http://www.polyphaser.com/ppc_ptd_home.aspx
Surge protection for ethernet and data cabling: http://www.polyphaser.com/kommerce_productdata.aspx?class=M0007
http://www.hyperlinktech.com/web/data_line_lightning_protectors.php

There are plenty of other sites that have information, these will get you started. Searching for "lightning+protection" (without the quotes) on Google will give you more places to visit than you probably have time for. There is plenty of excellent information available on this topic on the web. Of special note is the PolyPhaser site - they have tons of documents, one that even deals with grounding of Ham Radio stations.

And that's where we'll leave our discussion for this time. Until next time, 73 from Andy.

Buy it! • Sell it • Trade it • Fix it

SWAPFESTS

 <p>2004 WINNER Nicholas Luther, K9NL Oshkosh, WI.</p>	<p>34th ANNUAL MIDWINTER SWAPFEST WAUKESHA EXPOSITION CENTER WAUKESHA, WISCONSIN SATURDAY JANUARY , 2006</p> <p><i>Both sponsored by:</i> THE WEST ALLIS RADIO AMATEUR CLUB, INC. P. O. BOX 1072 · MILWAUKEE, WISCONSIN 53201</p>	<p><i>HAM IT UP EVERY SPRING!</i> MADISON SWAPFEST Mandt Community Center <i>APRIL 17, 2005</i> 400 Mandt Parkway Stoughton WI Doors open at 8 a.m. Sponsored by MARA/W9HSY P. O. Box 8890 Madison, WI 53708-8890 Swapfest Information Line. (608) 245-8890</p>	<p>SOUTH MILWAUKEE AMATEUR RADIO CLUB SWAPFEST 05 JULY 9, 2005 (Held every July) American Legion Park Shepard Avenue • Oak Creek, WI (414) 762-3235 Ask for Verne P.O. Box 102 South Milwaukee, WI 53172 e-mail ryatex@aol.com</p>		
<p>SEWFARS SWAPFEST HAM RADIOS • COMPUTERS • ELECTRONICS AMATEUR LICENSE EXAMS</p> <p>JUNE 05, 2005</p> <p>Setup starts at 6:00 A.M. For more information, call (262) 742-4903</p>	<p>The Chicago FM Club presents RADIO EXPO 2005 September 17-18, 2005 Lake County Fairgrounds, Rts. 45 and 120 Grayslake, Illinois Free parking • Amateur Exams • Talkin 146.16/76 Info Voice mail and FAX: (708) 457-0966 http://www.chicagofmclub.org P.O. Box 56784, Harwood Heights, IL 60656-0724</p>	<p>TRI-COUNTY ARC PRESENTS HAMFEST 2006 March , 2006</p> <p>YOUR SPRING FAVORITE ! www.cmdline.com/tcarc/ TCARC 213 Frederick St (920) 563-6381 Fort Atkinson, WI 53538 Evenings</p>			
 <p>North Shore Radio Club www.ns9rc.org <small>see the website!</small></p>	 <p>NSORC Fest <i>formerly known as LAMARSfest</i> Lake County Fairgrounds Grayslake, Illinois 04/16/05</p>	 <p>ARRL Publications HOTLINE Call Toll Free! 888-277-5289 e-mail: pubsales@arrl.org</p> <p>Check us out on the Web: http://www.arrl.org/ • Complete Publications Catalog • Membership application and services</p>	<p>The Milwaukee Repeater Club presents AMATEUR RADIO FEST 2005 November , 2005</p> <p>Waukesha County Expo Center Forum Buildings For more information, see: http://www.mrc91.org e-mail mrc@mrc91.org or call (414) 526-7011</p>		
<p>Ozaukee Radio Club 27th ANNUAL RADIO AND COMPUTER SWAPFEST MAY 7, 2005</p> <p>8 a.m. to 1 p.m. • Circle B Recreation Center Intersection of Highway 60 and County I Exams by Badger Examiners, c/o Gary Sharbuno, 5119 W, Willow Rd., Brown Deer, WI 53222 Swapfest sponsored by the Ozaukee Radio Club W55 N865 Cedar Ridge Drive • Cedarburg WI 53012</p>	<p>Circus City Swapfest Sponsored by the Yellow Thunder Amateur Radio Club Saturday, August 13, 2005 • 7 am—Noon Sauk County Fairgrounds • Baraboo, WI</p> <table border="1"><tr><td>Vendors • Concessions Camping • Free Parking Tail Gate Area</td><td>\$4.00 — Advanced \$5.00 — At Gate \$5.00 — 8 foot tables</td></tr></table> <p>Steve Schulze, N9UDO • Bill Klinkner, N9KXX (606) 356-2313 • (608) 643-6908/643-6453 http://www.qsl.net/ytarc/hamfest.htm,</p>	Vendors • Concessions Camping • Free Parking Tail Gate Area	\$4.00 — Advanced \$5.00 — At Gate \$5.00 — 8 foot tables	<p>SOUTH MILWAUKEE AMATEUR RADIO CLUB AUCTION Amateur Radio, Computers & Electronics Wed. OCT. 05, 2005, 6:00 p.m. American Legion Post 434 Shepard Avenue • Oak Creek, WI (414) 762-3235 Ask for Verne P.O. Box 102 South Milwaukee, WI 53172 e-mail: ryatex@aol.com</p>	
Vendors • Concessions Camping • Free Parking Tail Gate Area	\$4.00 — Advanced \$5.00 — At Gate \$5.00 — 8 foot tables				

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